

# Active Bacterial Core Surveillance (ABCs) Report Emerging Infections Program Network group A streptococcus, 2000 (preliminary)



#### **ABCs Areas**

California (3 county San Francisco Bay area); Connecticut; Georgia; Maryland (6 county Baltimore area); Minnesota; New York (7 county Rochester and 8 county Albany area); Oregon (3 county Portland area); Tennessee (11 urban counties)

# **ABCs Population**

The surveillance areas represent 27,572,592 persons. Source: U.S. Bureau of the Census. 1999

#### **ABCs Case Definition**

Invasive group A streptococcal disease: isolation of group A streptococcus (S. pyogenes) from a normally sterile site or from a wound culture accompanied by necrotizing fasciitis or Streptococcal Toxic Shock Syndrome in a resident of a surveillance area in 2000.

# **ABCs Methodology**

Project personnel communicated at least monthly with contacts in all microbiology laboratories serving acute care hospitals in their area to identify cases. Standardized case report forms that include information on demographic characteristics, clinical syndrome, and outcome of illness were completed for each identified case. Strains were typed by the *emm* system at CDC. Regular laboratory audits assess completeness of active surveillance and detect additional cases

All rates of invasive group A Streptococcal disease were calculated using U.S. Bureau of the Census postcensal population estimates for 1999. For national projections of cases, race- and age-specific rates of disease were applied from the aggregate surveillance area to the age and racial distribution of the 1999 U. S. population. Cases with unknown race were distributed by site based on reported race distribution for known cases within the eight age categories.

#### **Reported ABCs Profiles:**

Race	No. (1	Rate*)
White	598	(2.8)
Black	257	(5.5)
Other	60	(4.3)
Unknown race (n=106) distributed among knowns.		

\*Cases per 100,000 population for ABCs areas.

Ethnicity	No. (I	Rate*)
Hispanic	41	(3.0)
Non-Hispanic	412	
Unknown	462	

<sup>\*</sup>Cases per 100,000 population for ABCs areas.

	Cases	Deaths
Age (years)	No. (Rate*)	No. (Rate*)
<1	20 (5.2)	1 (0.26)
1	22 (5.8)	0 (0.00)
2-4	19 (1.7)	0 (0.00)
5-17	83 (1.6)	4 (0.08)
18-34	123 (1.9)	4 (0.06)
35-49	224 (3.3)	18 (0.27)
50-64	150 (3.8)	19 (0.48)
<u>≥</u> 65	274 (8.5)	59 (1.83)
Total	915 (3.3)	105 (0.38)

<sup>\*</sup> Cases or deaths per 100,000 population for ABCs areas

#### Most Common emm types\*

ABCs Area	Types	% of area isolates
California	1, 12, 41, ST-2967, 3, 11, 31	51
Connecticut	1, 28, 3, 89, 12, 22	69
Georgia	1, 3, 12, 75, 22, 27L/77, 73	74
Maryland	82, 1, 28, 89	55
Minnesota	1, 3, 28, 12	59
New York	1, 3, 4, 12, 28, 89, 83	72
Oregon	ST-2967, 1, 11, 3, 58	70
Tennessee	1, 12, 3, 28, 41, 75	79
Total	1, 3, 12, 28, 82	50

<sup>\*</sup>Requires a minimum of 4 isolates and \$5% of isolates typed

Syndrome	No. (%)
Cellulitis	306 (33.4)
Necrotizing fasciitis	55 (6.0)
Pneumonia	128 (14.0)
Primary bacteremia	323 (35.3)
Streptococcal Toxic Shock	37 (4.0)

Note: Some cases had more than one syndrome.

# Potentially preventable invasive group A streptococcal disease:

During 2000, 15 cases (age in years: 4 mos, 8 mos, 10 mos, 11 mos, 1, 4, 6, 7, 9, 11, 12, 27, 33) of invasive GAS disease were detected in patients with varicella.

# **National Projection of Invasive Disease:**

Cases: 8,800 (3.2/100,000) Deaths: 1,000 (0.38/100,000)

### For more information, visit our web site at:

http://www.cdc.gov/ncidod/dbmd/abcs